



HIGH VOLTAGE RECTIFIER

An indirectly heated high voltage half-wave rectifier designed for use in Television Receiver E.H.T. supply units. The low heater wattage makes it particularly suitable for operation from line time base fly-back pulses.

PHYSICAL DETAILS.

Base	...	...	B9A (Noval)
Max. Overall Length	...	...	74 mm. (2 $\frac{3}{8}$ in.)
Max. Seated Height	...	...	67 mm. (2 $\frac{5}{8}$ in.)
Max. Diameter	...	...	22.2 mm. ($\frac{7}{8}$ in.)

BASE CONNECTIONS.

*Pin 1—Heater, Cathode, Shield	*Pin 6—Heater, Cathode, Shield
Pin 2—Heater	†Pin 7—No Connection
†Pin 3—No Connection	Pin 8—Heater
*Pin 4—Heater, Cathode, Shield	*Pin 9—Heater, Cathode, Shield
Pin 5—Heater	Top Cap—Anode

HEATER.

Heater Voltage	...	...	6.3 volts
Heater Current	...	...	0.09 amp
Heater Voltage Tolerance:			
For $I_{out} < 200 \mu A$	...	...	$\pm 15\%$
For $I_{out} > 200 \mu A$	...	...	$\pm 7\%$

RATINGS.

Pulse Input:			
‡Max. P.I.V.	...	...	22 kV
Max. Rectified Current	...	...	800 μA
**Max. Peak Anode Current	...	...	40 mA
Max. Reservoir Capacitor	...	...	2000 pF
Sinusoidal Input:			
Max. r.m.s. Input Voltage	...	...	5 kV
Max. Rectified Current	...	...	3 mA
Max. Reservoir Capacitor	...	...	0.2 μF
Min. Limiting Resistance	...	...	100 k Ω

CAPACITANCE.

$C_a-(h+k+s)$	...	...	1.8 pF
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WARNING.

When operated at an anode voltage in excess of 16kV. X-ray shielding may be required to give protection against the possible danger of injury from prolonged exposure at close range. The level of X-radiation is likely to be considerably higher when the EY86 heater circuit is open.

*Pins 1, 4, 6 and 9 may be used for fixing an anti-corona shield.

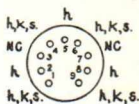
†Pins 3 and 7 should be used only for connections in the heater circuit. Under no circumstances must they be earthed.

‡Max. duration 18% of a line scanning cycle with a maximum of 18 μ secs.

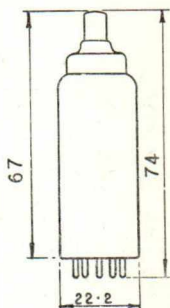
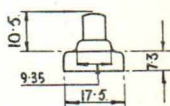
**Max. duration 10% of a line scanning cycle with a maximum of 10 μ secs.

EY86

6S2



Base Connections Underside View of Base



Dimensions shown are in millimetres (max.)



EY86

6S2

